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JOHANN WEST

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EDUCATION

Nashville, TN	**Vanderbilt University**	**Fall 2020 - May 2024**

- **B.S. in Computer Science**, May 2024. In-major GPA: 3.4
- **B.S. in Human Organizational Development**, May 2024. In-major GPA: 3.4
- **Programming Coursework**: Programming Design and Data Structures, Intermediate Software Design, Database Management, Algorithms, Operating Systems, Principles of Software Development

EMPLOYMENT

Software Developer Intern II	**Chalkline** (30+ Employee SaaS startup)	**May 2023 - August 2023**

Bettor Analytics Application: B2B Business Analytics Web Application

- Spearheaded the development of a full-stack .NET and Vue.js CRUD tooling and reporting application. Collaborated with client to fulfill specific requirements and adhere to company systems design structure.
- Engineered 30+ backend API endpoints to fulfill data flow, securely implementing protected routing and user authentication.
- Designed an intuitive frontend user-interface using Vue.js according to MVC design principles.
- Crafted 10+ dynamic views and tools enabling B2B clients to securely access, analyze, and modify vital business data, enhancing B2B client integration and analytics.
- Leveraged knowledge in .NET/C#, Vue.js, PostgreSQL, AWS, Bitbucket/Jira, Agile, Git, and MVC pattern.

Software Developer Intern	**Chalkline** (30+ Employee SaaS startup)	**September 2022 - March 2023**

Chalkline User Fulfillment Application: Internal CRUD Data Management Application

- Introduced an automated backend system for managing transactional email logic flow, eliminating approximately 10 person-hours by automating an average of 500 outgoing emails weekly.
- Developed user interface with CRUD capabilities allowing internal employees to efficiently manage states related to users and user transactions of over 1,400,000 unique user instances.
- Leveraged knowledge in React.js/JavaScript, PostgreSQL, Airtable, Agile, Bitbucket/Jira, and Git.

Python Programming Instructor	**Juni Learning**	**January 2021 - January 2022**

- Provided instruction to 20+ students weekly in OOP, algorithms, and game development courses.
- Leveraged knowledge in Python, NumPy, Pandas, and Algorithms.

PERSONAL PROJECTS

CreateX Application (2023)
- Developed a virtual-asset, exchange-market application hosted on Heroku using Django and React.js.
- Designed RESTful backend enabling mechanics for buying, selling, price tracking, and real time user-to-user order matching tied to a PostgreSQL database hosted on AWS RDS.

SafeRoute Application (2023)
- Created SafeRoute, a full-stack application to assist potentially threatened demographics by providing region specific information regarding safety and personal freedoms in different countries.
- Utilized Express.js, React.js, and MongoDB, sourcing data from the CATO Human Freedom Index.

Forex FSM Algorithmic Trading Design Pattern (2022)
- Created a design pattern for utilizing FSMs for scalable development of trading algorithms.
- Implemented Pythonic framework to deploy automated trading strategies to live markets.

ADDITIONAL EXPERIENCE

Undergraduate Computer Science Research – Quality Adjusted Life Years Computation App (2023)
- Developed a full-stack application and computational framework to provide users with a method of producing reliable QALY calculation to measure impact of altruistic efforts.
- Engineered algorithm to generate QALY calculation based on user-provided parameters and factors.
- Utilized LLM models to generate a standardized Quality Adjusted Life Years metric.

Skills

C++, .NET, C#, Django, Python, React.js, Vue.js, JavaScript, CSS, SQL, AWS, Git, GitHub, Bitbucket, Agile